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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION :		
10/523,070	08/11/2005	Hiroshi Yagi	265011US2PCT	8376	
22850 7590 08/21/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER		
			HAN, SHENG		
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
		1793			
			NOTIFICATION DATE	DELIVERY MODE	
			08/21/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/523,070	YAGI ET AL.		
Examiner	Art Unit		
SHENG HAN	1793		

CHE	2110 117 111	1750	
The MAILING DATE of this communication appears o	on the cover sheet with the c	orrespondence addres	ss
THE REPLY FILED <u>03 August 2009</u> FAILS TO PLACE THIS APPLIC	CATION IN CONDITION FOR	ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on the s application, applicant must timely file one of the following replie application in condition for allowance; (2) a Notice of Appeal (w for Continued Examination (RCE) in compliance with 37 CFR 1 periods:	es: (1) an amendment, affidavit vith appeal fee) in compliance v	, or other evidence, which with 37 CFR 41.31; or (3	ch places the 3) a Request
a) The period for reply expires <u>3</u> months from the mailing date of the	e final rejection.		
b) The period for reply expires on: (1) the mailing date of this Advisor no event, however, will the statutory period for reply expire later the Examiner Note: If box 1 is checked, check either box (a) or (b). On	ry Action, or (2) the date set forth in an SIX MONTHS from the mailing	date of the final rejection.	
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on wh have been filed is the date for purposes of determining the period of extension under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shorter set forth in (b) above, if checked. Any reply received by the Office later than the may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	nich the petition under 37 CFR 1.13 n and the corresponding amount oned statutory period for reply origin	36(a) and the appropriate e of the fee. The appropriate nally set in the final Office a	xtension fee extension fee action; or (2) as
2. ☐ The Notice of Appeal was filed on A brief in compliance	e with 37 CFR 41 37 must be f	iled within two months o	f the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any extension Notice of Appeal has been filed, any reply must be filed within t AMENDMENTS	thereof (37 CFR 41.37(e)), to	avoid dismissal of the a	
3. The proposed amendment(s) filed after a final rejection, but pr (a) They raise new issues that would require further consider (b) They raise the issue of new matter (see NOTE below);			use
(c) They are not deemed to place the application in better for appeal; and/or	rm for appeal by materially red	ucing or simplifying the	issues for
(d) ☐ They present additional claims without canceling a corres	sponding number of finally reje	cted claims.	
NOTE: "exposing only electrodes extending from the base search. (See 37 CFR 1.116 and 41.33(a)).	ack surface of the heater" wou	ld require further consid	eration and/or
4. The amendments are not in compliance with 37 CFR 1.121. Se	ee attached Notice of Non-Con	npliant Amendment (PT	OL-324).
5. Applicant's reply has overcome the following rejection(s):			,
6. Newly proposed or amended claim(s) would be allowab non-allowable claim(s).	— ble if submitted in a separate, ti	mely filed amendment o	anceling the
7. For purposes of appeal, the proposed amendment(s): a) wi how the new or amended claims would be rejected is provided The status of the claim(s) is (or will be) as follows:		be entered and an expl	anation of
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected to: Claim(s) rejected: <u>1-6,18,30, 31-35, 53, 54 and 57</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but befo because applicant failed to provide a showing of good and suffi was not earlier presented. See 37 CFR 1.116(e). 			
9. The affidavit or other evidence filed after the date of filing a Not entered because the affidavit or other evidence failed to overco showing a good and sufficient reasons why it is necessary and	ome <u>all</u> rejections under appea was not earlier presented. Se	l and/or appellant fails to e 37 CFR 41.33(d)(1).	provide a
10. ☐ The affidavit or other evidence is entered. An explanation of the REQUEST FOR RECONSIDERATION/OTHER	he status of the claims after en	try is below or attached.	
11. The request for reconsideration has been considered but does See Continuation Sheet.	s NOT place the application in	condition for allowance	because:
12. Note the attached Information <i>Disclosure Statement</i> (s). (PTO/13. Other:	/SB/08) Paper No(s)		
/Melvin Curtis Mayes/			
Supervisory Patent Examiner, Art Unit 1793			

Continuation of 11. does NOT place the application in condition for allowance because: The Amendments made by Applicant requires further search with respect to the new limitations that differ from the original limitations. Specifically, the insulating film recited is formed on the other surface of the metal substrate where the microchannel portion is not formed and the heater is provided on the insulating film on the other surface of the metal substrate such that a front surface of the heater contacts the insulating film and a back surface of the heater includes a heater protective layer that covers said heater while exposing only electrdoes extending from the back surface of the heater, the electrodes being configured to energize the heater. Furthermore, the arguments set forth in the Amendment apply to the Amended Claims (Pg. 21 of Remarks) which reqire further reconsideration. With regard to the insulating film, Schuppich teaches that it can be in the form of heat transfer channels which function to retain heat, similar to a insulating film. With regard to the Kearl reference, Applicant cites to col. 15, lines 41-50 to show that the biopolar plates and end plates are located at the extremities of the fuel cell stack (Remarks, pg. 24), However col. 15, lines 41-50 explains that the method of making the bipolar plates can also be used for making the end plates as well. Therefore, the flow channels refered to in the Final Action is with regard to the bipolar plates and not the end plates as discussed by Kearl. Furthermore, the reference does demonstrate that the heater elements are disposed on the biopolar plates (not the endplates), Fig. 2B). The use of Bae in combination with Kearl is not with regard to the flow channels. Kearl teaches microchannels (see Fig. 3, 4, 5, 6, 7 and 8). Bae is used instead to demonstrate that the film is a metal oxide film on the inner wall surface of the flow path.